

CALIFORNIA STATE BOARD OF HEALTH

MONTHLY BULLETIN

Vol. 9

JANUARY, 1914

No. 7



CONTENTS.

	PAGE.
ANNOUNCEMENT	143
BUREAU REPORTS FOR DECEMBER, 1913—	
Bureau of Administration.....	143
Bureau of Tuberculosis.....	145
Bureau of Registration of Nurses.....	147
Bureau of the Hygienic Laboratory.....	147
Bureau of Foods and Drugs.....	149
Bureau of Sewage Disposal and Water Supplies.....	150
Bureau of Vital Statistics.....	151

Published every month at the office of the Board, Sacramento.

Entered as second class matter, August 15, 1905, at the post office at Sacramento, California, under the Act of Congress of July 16, 1894.

Printed at the State Printing Office, FRIEND WM. RICHARDSON, Superintendent

THE CALIFORNIA STATE BOARD OF HEALTH.

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Divisions: Examination and Registration of Nurses; Inspection of Hospitals and Training Schools.

4. Bureau of the Hygienic Laboratory.

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Divisions: Biological Examinations; Preventive Therapeutics; Epidemiological Investigations.

5. Bureau of Foods and Drugs.

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Divisions: Division of Inspections; Division of Laboratory Examinations; Division of Food and Drug Standards.

6. Bureau of Sanitary Engineering.

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Divisions: Sewage Disposal; Water Supplies; Camp Sanitation.

7. Bureau of Vital Statistics.

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Divisions: Births, Marriages, Deaths; Morbidity Returns.

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W. W. CROSS, M.D.

Division Bacteriologist and Field Officer-----Patterson Block, Fresno, California

STANLEY P. BLACK, M.D.

Division Bacteriologist and Field Officer-----Auditorium Building, Los Angeles

REGULAR MEETINGS.

The meetings of the California State Board of Health are held regularly the first Saturday of each month, but the quarterly meetings required by law to be held at the Capitol of the State are ordinarily designated as January, April, July, and October.

By courtesy of the University of California the Food and Drug Laboratory and the Hygienic Laboratory are located in University buildings at Berkeley, California.

Address all communications to the

SECRETARY, Sacramento, California.

ANNOUNCEMENT.

Surgeon Donald H. Currie of the United States Public Health Service and Dr. Edward F. Glaser of San Francisco have been appointed by Governor Johnson to take the places on the California State Board of Health made vacant by the resignations of Dr. William F. Snow and Dr. Frank K. Ainsworth, respectively.

At the meeting of the Board, held January 3, 1914, Dr. Currie was elected Secretary of the Board, which position Dr. Snow had held from June, 1909, to December, 1913. Dr. Snow has gone to New York to assume the secretaryship of the American Social Hygiene Association.

The personnel of the California State Board of Health now consists of the following:

Martin Regensberger, M.D., President, San Francisco.

James H. Parkinson, M.D., Vice-President, Sacramento.

Donald H. Currie, M.D., Secretary and Executive Officer, Sacramento.

W. LeMoyne Wills, M.D., Los Angeles.

Wallace A. Briggs, M.D., Sacramento.

O. Stansbury, M.D., Chico.

Edward F. Glaser, M.D., San Francisco.

REPORT OF THE BUREAU OF ADMINISTRATION FOR DECEMBER, 1913.

JOHN F. LEINEN, Director.

In addition to a large amount of routine work the following matters were given the Board's attention:

Edmund Erdmann has been notified that his application for permission to slaughter horses for human consumption is refused, and the Health Officers of Alameda and Contra Costa counties have been notified of the facts in the matter.

Professor Jaffa, Director of the Food and Drug Laboratory, has been notified of the Board's approval of the rules and regulations governing the enforcement of the cold storage law.

The State Water Commission has been notified that the data submitted by it, with reference to raising the level of Clear Lake, is not sufficient to allow of the Board rendering an opinion as to whether such action would have any effect upon the health of the inhabitants in the community.

The Peoples Water Company has been notified that no permit will be granted the town of Moraga for a sewer system until the company has had an opportunity to present its side of the case.

The town of Gridley has been informed that the Board has adopted the report of the Consulting Engineer on the proposed sewer system for the town.

The Vice-President has taken up with the Consulting Engineer the question of the probable cost of an investigation of the pollution of the water supply of Glendale, Los Angeles County.

A claim has been rendered the board of supervisors of Stanislaus County, in amount \$17.55, for eradication of squirrels on the property of the Modesto Creamery, the board of supervisors having agreed to meet such expense where the owners failed or refused to comply with the law.

Doctor B. F. Howard, Director of the Department of Tuberculosis, has filed a report on his inspection of the Marysville jail.

Doctor Howard has filed a report on a sanitary inspection of the Sacramento city jail; also a report on a sanitary inspection of Folsom State Prison.

Chief Bacteriologist J. C. Geiger, of the Hygienic Laboratory, has filed a report on a case of human rabies at Lincoln.

Director W. A. Sawyer has filed a special report on the rabies situation in Alameda County.

Doctor William Simpson, Health Officer of Santa Clara County, reported that an ordinance had been introduced in the council of San Jose making it a misdemeanor to muzzle any dog.

Doctor F. H. Meade, Health Officer of San Diego, has requested the Board to deputize Doctor Thompson, City Bacteriologist of San Diego, to administer antirabic treatment for the city of San Diego. Doctor Meade has been requested to file with this Board a letter setting forth Doctor Thompson's qualifications, technical and otherwise, and to have same approved by Doctors Black and Powers.

H. W. Pike, Health Officer of Burlingame, reported by telegram three cases of scarlet fever in one house in that city. The matter has been taken up with the County Health Officer for investigation and report.

Doctor John P. Frizell, of Ione, filed with this Board a complaint relative to sanitary conditions in Ione, with special reference to the lack of sewers in the town. The matter has been taken up with the County Health Officer and the board of supervisors, with suggestions for action in the premises.

Mr. J. B. Andrews, President of the American Association for Labor Legislation, has requested from this Board statistics on mercurial poisoning in California. Reports are on file from the State Labor Commissioner, the State Mineralogist and from health officers of several counties in which are located quicksilver mines.

Doctor R. A. Peers, of Colfax, has requested this Board to make an inspection of the new septic tank installed at that place. Inspection has been deferred until the town files new application blanks.

Complaint has been received that the sewage from the town of Boulder Creek has been polluting the San Lorenzo River. The matter has been referred to the County Health Officer for report.

The town of Gridley has requested an examination of its water supply. The Director of the Hygienic Laboratory has been instructed to furnish containers for this purpose.

Doctor Gillihan, Health Director of Oakland, reported that a body had been buried without a permit from the city health department, the permit having been issued by a subregistrar who had no authority to issue such permit. The undertaker was arrested and fined \$25.00. The subregistrar has been cautioned.

Doctor C. W. Stiles has written that he will be unable to come to California for the purpose of making a sanitary survey of hookworm diseases until the latter part of February.

The Santa Paula Water Company has applied for a permit to continue to supply water to the inhabitants, in accordance with chapter 374, Statutes 1913. The company has been notified that blanks will be furnished when available.

Complaint has been filed with this office relative to objectionable odors from the Union Oil Company plant at Richmond. Mr. Dimm, a representative of the Union Oil Company, called at the office of the Board to discuss the matter of eliminating such odors.

Surgeon Donald H. Currie was, on December 20, 1913, commissioned by Governor Johnson a member of the State Board of Health, and has taken the oath and filed his commission with the Vice-President.

Doctor L. S. Anderson, Special Health Officer for Irvington, requested assistance from the Board in enforcing rabies quarantine. He has been referred to the County Health Officer, and has been notified by wire to enforce quarantine.

Doctor F. W. Browning, Health Officer of Hayward, reports that the patient under quarantine for glanders has been released by the attending physician and is mingling with the inhabitants of that town. Director Sawyer has been detailed to proceed to Hayward and make an investigation and report in the premises.

The Director of the Hygienic Laboratory has been requested to prepare a plan for an exhibit at the Panama-Pacific Exposition.

The question of the septic tank at Lemoore has been taken up with the Consulting Engineer.

Complaint was filed with this Board that sewage from the town of Yreka was polluting the drinking water at several dairy ranches. The Secretary has been in correspondence with the complainants, and has secured additional data with regard to the examination of the water.

The Surgeon General has been notified that the Public Health Service will be furnished with advance sheets of the Bulletin.

REPORT OF THE BUREAU OF TUBERCULOSIS FOR DECEMBER, 1913.

BURT F. HOWARD, M.D., Director.

During the month, inspections were made of the county hospitals of Butte, Yuba, San Joaquin, Amador, Sutter, and Sacramento counties; the county jails of Butte, San Joaquin, Yuba, and Sacramento counties; the city jails of Marysville and Sacramento, the Stockton State Hospital, the State Prison at Folsom and the Preston School of Industry with respect to the conditions predisposing to tuberculosis and the proper care of tuberculous inmates.

After visiting an institution in any locality, whatever time was available was used in calling upon the local health officers and as many physicians as possible, for the purpose of calling their attention to the law regarding registration of tuberculosis and requesting immediate compliance with its requirements.

A letter was sent to each County Medical Society, calling attention to the law requiring registration of tuberculosis and the proper manner of making reports. This letter was also forwarded to the editor of the California State Journal of Medicine, with the request that he give the matter further publicity.

Inquiry was also made in a number of states, where registration of tuberculosis is in force, as to methods used in obtaining and recording statistics.

The work of the Tuberculosis Commission was reviewed and plans completed for the publication of its report.

At the request of the President and Secretary of the State Society for the Study and Prevention of Tuberculosis, an interview was obtained with Governor Johnson for the purpose of requesting his co-operation in the establishment of Tuberculosis Day. The Governor willingly complied with the request, and issued the following proclamation:

EXECUTIVE DEPARTMENT,
STATE OF CALIFORNIA.

To the People of California:

I am asked by the National Association for the Study and Prevention of Tuberculosis to assist in establishing December 7, 1913, as Tuberculosis Day, when a comprehensive campaign will be conducted throughout the country to educate the people as to precautions to be taken and methods to be employed in the battle to minimize the ravages of the disease. I regard this movement as one in which all citizens should join, and I wish to commend the day to the people of California to be observed in co-operation in this struggle.

In witness whereof, I have hereunto set my hand and caused the great Seal of the State of California to be affixed this 1st day of December, 1913.

_____, Governor.

A special article was written for school teachers on the prevention of tuberculosis and published by the State Board of Education, together with other tuberculosis literature.

The law makes tuberculosis a reportable disease and requires the complete and proper registration of all tuberculous persons within the State.

Health officers must report in writing to the State Board of Health.

Physicians should report promptly *to their local health officer* the names and addresses of all tuberculous persons (including bone and gland cases) as soon as the diagnosis is established.

Proper blanks for this purpose may be obtained from the local health officer.

REPORT OF THE BUREAU OF REGISTRATION OF NURSES FOR DECEMBER, 1913.

ANNE C. JAMMÉ, R.N., Director.

During the month of December the work of the Bureau consisted, mainly, of the examination of applicants' credentials for the certificates of registered nurses—who shall be registered without examination according to the provisions of the law, prior to July 1, 1914.

State registration of nurses is primarily to give protection to a defined standard of teaching and training, and secondarily, to confer the distinguishing title upon graduates who have complied with the requirement of a fixed minimum of instruction and training, also to refuse to allow those who have had less than this minimum to enter for examination by the State. The effect will be to protect the honest training school and prevent deterioration of methods which tends to occur in the absence of any restraining power. The State, then, by virtue of its authority, first registers the school of nursing and later the graduate of the school.

That this may be done effectively a systematic investigation of every training school will be made, with the following essential points in view:

1. The hospital with which the school is connected; its capacity for patients and facilities for maintaining a school of nursing; the living conditions for students.

2. The theoretical instruction; subjects taught; length of course; preliminary instruction; arrangement of course; affiliations with other educational centers; affiliations with other hospitals in order to obtain the required course; equipment and facilities for instruction.

3. The practical instruction; distribution of time in each service; character of bedside instruction.

4. Instructors; the head of the training school; the number of instructors and if specially prepared for the work of teaching in schools of nursing.

5. The standard of admission; educational, physical and moral character of the individual nurse and the preparation she brings to the work of nursing; the moral and disciplinary standard of the school.

REPORT OF THE BUREAU OF THE HYGIENIC LABORATORY FOR DECEMBER, 1913.

WILBUR A. SAWYER, M.D., Director.

Rabies in the Year 1913.

During the year 1913, the State Hygienic Laboratory examined the brains of 370 animals which had been suspected of having rabies, and found that the disease was present in 319 instances. The number of examinations showed a considerable increase over the figures for the year 1912. In that year 288 examinations were made and conclusive evidence that the disease was present was found in 243 of the specimens.

With the increase in rabies among dogs and other animals the demand

for the Pasteur treatment of persons who had been bitten by rabid animals grew larger. In the year 1913 the Laboratory manufactured and administered antirabic virus to 270 persons. During the previous year, 1912, only 192 Pasteur treatments were administered by the Laboratory.

Increased Space and Equipment.

The year 1913 brought to the Laboratory a substantial increase in space and equipment. Through the courtesy of the University of California new quarters were provided in the Hygienic and Pathology Building on the university campus in Berkeley. The new rooms are more spacious than the former quarters, and much better suited to the ever increasing work of the Laboratory. The Laboratory equipment was moved into the new rooms on October 4, 1913. Several new pieces of permanent apparatus have been installed within the last two months.

Division of Biological Examinations.

Summary of Examinations made in the California State Hygienic Laboratory during the month of December, 1913.

Condition suspected	Positive	Negative	Inconclusive	Total
Main Laboratory at Berkeley:				
Anthrax -----		7		7
Diphtheria -----	23	31		54
Gonococcus infection -----	19	2		21
Hookworm -----		1		1
Malaria -----		2		2
Rabies -----	43	6	1	50
Tuberculosis -----	10	12		22
Typhoid -----	1	11	1	13
Water pollution -----	1	5	1	7
Miscellaneous -----	1	1	1	3
				180
Northern Branch at Sacramento:				
Diphtheria -----	15	30		45
Malaria -----		1		1
Tuberculosis -----	2	11		13
Typhoid -----	5	6		11
Miscellaneous -----		1		1
				71
San Joaquin Valley Branch at Fresno:				
Diphtheria -----		31		31
Tuberculosis -----		1		1
Typhoid -----		2		2
				34
Southern Branch at Los Angeles:				
Diphtheria -----	12	18	2	32
Tuberculosis -----		3		3
				35
Total number of examinations -----				320

Division of Preventive Therapeutics.

Pasteur Treatment for the Prevention of Rabies by the State Hygienic Laboratory during the month of December, 1913.

	Treatment commenced	Treatment completed
Main Laboratory at Berkeley-----	15	10
Northern Branch at Sacramento-----	2	3
San Joaquin Valley Branch at Fresno-----	0	0
Southern Branch at Los Angeles-----	3	4
Laboratory of Sacramento Board of Health, by deputized bacteriologist-----	0	0
Laboratory of San Francisco Board of Health, by deputized bacteriologist-----	1	3
Laboratory of Los Angeles Board of Health, by deputized bacteriologist-----	0	0
Laboratory of Letterman General Hospital, Presidio, by deputized bacteriologist-----	0	0
	21	20

Public Health Instruction.

Participation in Instruction in Public Health during December, 1913.

Main Laboratory at Berkeley:	
Bacteriological instruction outfits sent out-----	0
Bacteriological instruction outfits in use-----	29
Lectures or talks by the Director-----	2

Division of Epidemiological Investigations.

Epidemiological Investigations during December, 1913.

Main Laboratory at Berkeley:	
Special investigations by the Director-----	3
Investigation of a human case of rabies at Oxnard.	
Investigation of the lesions produced by the poisonous tick, <i>Ornithodoros coriaceus</i> .	
Attempts at the cultivation of the organisms of rabies and poliomyelitis.	
Special investigation of the Chief Bacteriologist-----	1
Investigation of the effect of quinine on rabies in dogs.	

REPORT OF THE BUREAU OF FOODS AND DRUGS FOR DECEMBER, 1913.

M. E. JAFFA, Director.

The Laboratory has received during the past month seventy-eight miscellaneous samples for examination and analysis. A large number of these samples represent deliveries made to state institutions. They have been examined and analyzed in order to compare the quality of the goods delivered with the original samples upon which the contracts for supplies were made. Over 90 per cent of these state institution samples are fully up to standard.

The official samples examined this month consist largely of miscellaneous routine food and drug products.

Notices of Judgments.

The following list of Notices of Judgments is at hand from the Department of Agriculture, at Washington, and interested parties wishing any separate notice should address the Director of the State Food and Drug Laboratory, University of California, Berkeley, Cal.:

- Nos. 2573, 2588. Adulteration and Misbranding of Sugar Butter.
- No. 2574. Adulteration and Misbranding of Apple Base.
- No. 2575. Misbranding of Honey Crisps and Corn Flakes.
- Nos. 2576, 2595, 2603, 2611. Adulteration and Misbranding of Vinegar.
- Nos. 2577, 2618. Adulteration and Misbranding of Lemon Product and Extract.
- No. 2578. Misbranding of Headache Tablets.
- No. 2579. Adulteration of Corn Flour.
- No. 2580. Adulteration and Misbranding of Whisky.
- Nos. 2581, 2622. Adulteration and Misbranding of Olive Oil.
- No. 2623. Adulteration and Misbranding of Olive Oil.
- Nos. 2582, 2601. Adulteration and Misbranding of Butter.
- Nos. 2583, 2584, 2606. Adulteration and Misbranding of Oysters.
- No. 2585. Misbranding of Lithia Water.
- No. 2586. Adulteration of Prunes.
- No. 2587. Adulteration of Apricots.
- Nos. 2589, 2610. Misbranding of Cider.
- No. 2590. Misbranding of Sago.
- No. 2591. Misbranding of Candy.
- Nos. 2592, 2617, 2624, 2625. Adulteration and Misbranding of Vanilla Extract.
- Nos. 2593, 2594, 2597. Adulteration of Milk and Cream.
- No. 2596. Misbranding of Lima Beans.
- No. 2598. Adulteration and Misbranding of Pie Filling.
- Nos. 2599, 2614. Misbranding of Cheese.
- No. 2600. Adulteration and Misbranding of Mixed Feed.
- Nos. 2602, 2607, 2608. Adulteration and Misbranding of Tomato Catsup.
- No. 2604. Adulteration and Misbranding of Wine.
- No. 2605. Adulteration and Misbranding of Ale.
- No. 2609. Adulteration and Misbranding of Vanilla and Lemon Flavor.
- No. 2612. Adulteration of Tomato Pulp.
- No. 2613. Adulteration and Misbranding of Beer.
- No. 2615. Adulteration and Misbranding of Grape-all and Grape Cider.
- No. 2616. Misbranding of Mincemeat.
- No. 2619. Adulteration and Misbranding of Orange Extract.
- Nos. 2620, 2621. Adulteration and Misbranding of Beer.
- No. 2626. Adulteration and Misbranding of Malt.
- No. 2627. Adulteration of Dessicated Eggs.

REPORT OF THE BUREAU OF SEWAGE DISPOSAL AND WATER SUPPLIES FOR DECEMBER, 1913.

CHARLES GILMAN HYDE, C.E., Director.

During the month of December a large volume of general correspondence relating to sanitary engineering matters was conducted by the Consulting Engineer of the Board. On December 11th the Consulting Engineer visited Sebastopol and made an examination of the septic tank of that city, and the character and condition of Laguna de Santa Rosa from the sewer outfall into the creek through a considerable distance below. The Santa Rosa sewer farm was also visited on that date. On December 12th the Consulting Engineer completed a report on the sewerage and sewage disposal of Hotel Niles at Alturas, and transmitted it to the Board for action.

REPORT OF BUREAU OF VITAL STATISTICS.

GEORGE D. LESLIE, Director.

L. V. BOYLE, Births, Deaths, Marriages.

G. P. JONES, Morbidity Returns.

BIRTHS, DEATHS, AND MARRIAGES FOR NOVEMBER.*

State Totals and Annual Rates.—The following table shows for California as a whole the birth, death and marriage totals for the current and preceding months in comparison with those for the corresponding months of last year, as well as the annual rates per 1,000 population represented by the totals for the current and preceding months. The rates are based on an estimated midyear population of 2,671,491 for California in 1913, the estimate having been made by the Census Bureau method with slight modifications.

Birth, Death and Marriage Totals, with Annual Rates per 1,000 population for current and preceding months for California: November.

Month	Monthly total		Annual rate per 1,000 population: 1913
	1913	1912	
November—			
Births -----	3,641	3,236	16.6
Deaths -----	2,980	2,992	13.6
Marriages -----	2,517	2,773	11.5
October—			
Births -----	3,922	3,352	17.3
Deaths -----	3,085	2,992	13.6
Marriages -----	2,913	2,907	12.8

The November total was much greater in 1913 than in 1912 for births, about the same each year for deaths, and considerably less this year than last for marriages.

County Totals.—The first table which follows below shows the monthly birth, death and marriage totals for the principal counties of the State, the list being limited to counties having a population of at least 25,000 according to the Federal Census of 1910. Totals are also shown for San Francisco and the other bay counties (Alameda, Contra Costa, Marin, and San Mateo), as well as for Los Angeles and Orange counties together.

City Totals.—The second of the following tables gives the birth and death totals for the principal freeholders' charter cities, the list including all chartered cities with a census population of at least 15,000 in 1910. Totals are given likewise for San Francisco in comparison with Oakland, Alameda, and Berkeley, the three cities adjoining one another on the east shore of San Francisco Bay, as well as for Los Angeles in

*NOTE.—The present report is for the month preceding, but one. This order must be followed hereafter because of the publication of the Bulletin during the early part of the month, before the tabulation of records for the preceding month is completed.

comparison with neighboring chartered cities (Long Beach, Pasadena, Pomona, and Santa Monica).

Birth, Death and Marriage Totals, for principal counties: November.

County	November, 1913		
	Births	Deaths	Marriages
California -----	3,641	2,980	2,517
Counties of more than 25,000 population (1910):			
Alameda -----	358	291	221
Butte -----	30	31	16
Contra Costa -----	53	38	22
Fresno -----	137	74	83
Humboldt -----	38	36	22
Kern -----	61	39	28
Los Angeles -----	937	703	594
Marin -----	18	8	66
Orange -----	94	48	106
Riverside -----	46	22	35
Sacramento -----	131	95	76
San Bernardino -----	83	82	63
San Diego -----	134	105	98
San Francisco -----	624	530	506
San Joaquin -----	43	82	62
San Mateo -----	41	38	29
Santa Barbara -----	40	24	24
Santa Clara -----	108	111	101
Santa Cruz -----	41	32	20
Solano -----	26	27	12
Sonoma -----	69	60	43
Tulare -----	46	36	28
Selected groups:			
San Francisco and other bay counties -----	1,094	905	844
Los Angeles and Orange counties -----	1,031	751	700

Birth and Death Totals, for principal cities: November.

City	November, 1913	
	Births	Deaths
Freeholders' charter cities -----	2,230	1,813
Cities of more than 15,000 population (1910):		
Alameda -----	24	21
Berkeley -----	48	43
Fresno -----	65	35
Long Beach -----	38	31
Los Angeles -----	589	463
Oakland -----	263	164
Pasadena -----	43	35
Riverside -----	30	13
Sacramento -----	100	88
San Diego -----	95	86
San Francisco -----	624	530
San Jose -----	50	46
Stockton -----	16	40
Selected groups:		
San Francisco -----	624	530
Oakland, Alameda and Berkeley -----	335	228
Total, bay cities -----	959	758
Los Angeles -----	589	463
Neighboring cities -----	114	95
Totals -----	703	558

Causes of Death.—The following table shows the classification of deaths in California for the current month, in comparison with the preceding month:

In November there were 423 deaths, or 14.2 per cent of all, from diseases of the circulatory system and 415, or 13.9 per cent, from various forms of tuberculosis, heart disease thus leading tuberculosis slightly.

Other notable causes of death in November were: Diseases of the digestive system, 328; diseases of nervous system, 302; violence, 287; diseases of nervous system, 279; cancer, 215; Bright's disease and nephritis, 163, and epidemic diseases, 140.

The deaths from epidemic diseases were as follows: Typhoid fever, 56; diphtheria and croup, 23; influenza, 15; scarlet fever, 14; malarial fever, 10, and all other epidemic diseases, 22.

The deaths from the five leading epidemic diseases reported for the month were distributed by counties as follows:

Typhoid fever		Diphtheria and croup		Scarlet fever	
Alameda	4	Alameda	5	Alameda	1
Butte	1	Amador	1	Fresno	5
Calaveras	1	Los Angeles	6	Marin	1
Colusa	1	Mendocino	1	Sacramento	2
Contra Costa	2	Placer	1	San Francisco	2
Fresno	1	Riverside	2	Siskiyou	1
Imperial	1	Sacramento	1	Tulare	2
Inyo	1	San Francisco	4		
Kern	2	San Joaquin	1	Total	14
Los Angeles	12	Sutter	1		
Mendocino	1				
Merced	1	Total	23		
Napa	2				
Orange	1				
Riverside	1				
Sacramento	3				
San Benito	1				
San Bernardino	2				
San Diego	3				
San Francisco	9				
San Joaquin	2				
Shasta	1				
Sonoma	1				
Stanislaus	1				
Yolo	1				
Total	56				

Influenza		Malarial fever	
Contra Costa	1	Calaveras	1
Fresno	1	Kern	1
Humboldt	1	Los Angeles	1
Kings	1	Merced	1
Los Angeles	6	San Francisco	1
Monterey	1	Sutter	1
San Diego	2	Tehama	1
Santa Clara	1	Tulare	2
Solano	1	Yolo	1
Total	15	Total	10

Geographic Divisions.—The following table presents data for geographic divisions, including the metropolitan area, or San Francisco and the other bay counties (Alameda, Contra Costa, Marin, and San Mateo), in comparison with the rural counties of Northern and Central California:

Deaths from Main Classes of Diseases, for Geographic Divisions: November.

Geographic division	Deaths: November										
	All causes -----	Epidemic diseases -----	Tuberculosis (all forms) ----	Cancer -----	Diseases of nervous system	Diseases of circulatory system -----	Diseases of respiratory system -----	Diseases of digestive system -----	Bright's disease and nephritis--	Violence -----	All other causes -----
THE STATE-----	2,980	140	415	215	302	423	279	328	163	287	428
Northern California-----	366	17	31	12	39	54	42	34	25	53	59
Coast counties -----	176	7	14	5	22	27	16	21	11	26	27
Interior counties -----	190	10	17	7	17	27	26	13	14	27	32
Central California -----	1,583	81	209	125	160	225	159	186	80	133	225
San Francisco -----	530	21	75	45	42	88	48	59	30	43	79
Other bay counties---	375	15	49	32	41	65	45	44	23	25	36
Coast counties -----	194	5	20	22	21	32	15	26	7	13	33
Interior counties -----	484	40	65	26	56	40	51	57	20	52	77
Southern California-----	1,031	42	175	78	103	144	78	108	58	101	144
Los Angeles -----	703	30	109	57	76	102	54	66	47	62	100
Other counties -----	328	12	66	21	27	42	24	42	11	39	44
Northern and Central California-----	1,949	98	240	137	199	279	201	220	105	186	284
Metropolitan area ---	905	36	124	77	83	153	93	103	53	68	115
Rural counties -----	1,044	62	116	60	116	126	108	117	52	118	169

Sex and Age Periods.—The proportion of the sexes among the 2,980 decedents in November was: Male, 1,834, or 61.5 per cent; and female, 1,146, or 38.5 per cent.

The following table shows the age distribution by numbers and per cents of deaths classified by sex:

Deaths Classified by Sex and Age Periods, with Per Cents by Age Periods, for California: November.

Age period	Deaths			Per cent		
	Total	Male	Female	Total	Male	Female
All ages	2,980	1,834	1,146	100.0	100.0	100.0
Under 1 year	353	203	150	11.8	11.1	13.1
1 to 4 years	94	48	46	3.2	2.6	4.0
5 to 14 years	73	37	36	2.5	2.0	3.1
15 to 24 years	164	96	68	5.5	5.2	5.9
25 to 34 years	293	189	104	9.8	10.3	9.1
35 to 44 years	341	227	114	11.4	12.4	9.9
45 to 54 years	362	243	119	12.2	13.3	10.4
55 to 64 years	406	262	144	13.6	14.3	12.6
65 years and over	894	529	365	30.0	28.8	31.9

This table shows that relatively more females than males died at the age periods under 25 years as well as at 65 years and over, while

relatively more males than females died at the age periods from 25 to 64 years.

Occupations.—The table below gives, for deaths 15 years and over, the number of men and women for whom some occupation was reported in contrast with those for whom no gainful occupation was shown.

Deaths, fifteen years and over, Classified by Sex, and Occupation with Per Cents by Sex, for California: November.

	Deaths			Per cent male	Per cent female
	Total	Male	Female		
15 years and over-----	2,460	1,546	914	62.8	37.2
Occupation reported -----	1,455	1,365	90	93.8	6.2
No gainful occupation-----	1,005	181	824	18.0	82.0

Of the 1,455 decedents for whom occupations were reported the males numbered 1,365, or 93.8 per cent, and the females only 90, or 6.2 per cent.

The following table shows the distribution of male decedents 15 years and over, engaged in the main kinds of occupation:

Deaths of Males fifteen years and over engaged in Gainful Occupations, Classified by kind of occupation, with Per Cents, for California: November.

Kind of occupation	Males 15 years and over	
	Deaths	Per cent
All occupations -----	1,365	100.0
Professional -----	77	5.6
Clerical and official-----	96	7.0
Mercantile and trading-----	110	8.1
Public entertainment -----	21	1.5
Personal service, police and military-----	47	3.4
Laboring and servant-----	286	21.0
Manufacturing and mechanical industry-----	278	20.4
Agriculture, transportation and other outdoor pursuits----	438	32.1
All other occupations-----	12	0.9

Of the 1,365 male decedents for whom occupations were reported, 438, or 32.1 per cent, were engaged in agriculture, transportation, and other outdoor pursuits; 286, or 21.0 per cent, in laboring and servant work; 278, or 20.4 per cent, in manufacturing and mechanical industry; and altogether 363, or 26.5 per cent, in professional, clerical and official, mercantile and trading, and all other occupations.

It should be noted that the figures on deaths occurring in different occupations are necessarily affected by the fact that in California a large number of men are engaged in agriculture and other outdoor

pursuits, while relatively few follow professional and similar occupations which show small numbers of deaths.

Deaths from Certain Principal Causes, with proportion per 1,000 Total Deaths, for current and preceding months, for California: November.

Cause of death	Deaths: November	Proportion per 1,000	
		November	October
ALL CAUSES.....	2,980	1,000.0	1,000.0
Typhoid fever	56	18.8	16.9
Malarial fever	10	3.4	2.3
Smallpox	1	0.3	-----
Measles	2	0.7	2.3
Scarlet fever	14	4.7	0.3
Whooping-cough	5	1.7	1.3
Diphtheria and croup.....	23	7.7	6.2
Influenza	15	5.0	1.3
Other epidemic diseases.....	14	4.7	2.9
Tuberculosis of lungs.....	354	118.8	123.2
Tuberculosis of other organs.....	61	20.5	20.1
Cancer	215	72.2	70.3
Other general diseases.....	143	48.0	44.4
Meningitis	29	9.7	10.7
Other diseases of nervous system.....	273	91.6	79.7
Diseases of circulatory system.....	423	141.9	158.5
Pneumonia and broncho-pneumonia.....	211	70.8	61.9
Other diseases of respiratory system.....	68	22.8	23.0
Diarrhea and enteritis, under 2 years.....	102	34.2	50.9
Diarrhea and enteritis, 2 years and over.....	34	11.4	12.6
Other diseases of digestive system.....	192	64.4	56.7
Bright's disease and nephritis.....	163	54.7	57.7
Childbirth	25	8.4	11.7
Diseases of early infancy.....	125	42.0	37.3
Suicide	56	18.8	22.4
Other violence	231	77.5	79.7
All other causes.....	135	45.3	45.7

MORBIDITY REPORT FOR DECEMBER.

There was a considerable diminution in the number of cases of diphtheria, and typhoid fever during December. On the other hand, pneumonia and smallpox show a marked increase over November.

The definite foci for smallpox were Los Angeles, Bakersfield and Stockton, half of the eighty-one cases reported having occurred in these places.

Sacramento contributed thirty-two cases of typhoid fever, the drinking of unfiltered river water being the probable source of infection. Corning, in Tehama County, reported eleven cases of typhoid fever. An examination of the town water supply failed to reveal the source of infection, and a thorough investigation is now being undertaken.

Smallpox.

Table Showing Distribution of Cases Reported during December, 1913.

Counties and cities	Number new cases reported during month	Number vaccinated within seven years preceding attack	Number last vaccinated more than seven years preceding attack	Number never successfully vaccinated	Vaccination history not obtained or uncertain
Alameda County -----					
Livermore -----	2			1	1
Oakland -----	2				2
Hayward -----	1			1	
Butte County -----	2				2
Contra Costa County -----	1				1
Fresno County -----					
Fresno -----	4	2		2	
Imperial County -----	2	1	1		
Brawley -----	2			2	
Kern County -----					
Bakersfield -----	12		1	11	
Los Angeles County -----	1			1	
Los Angeles -----	15			15	
Mendocino County -----	2			2	
Nevada County -----					
Nevada City -----	1			1	
Placer County -----	2				2
Riverside County -----					
Riverside -----	1			1	
Sacramento County -----					
Sacramento -----	1			1	
San Diego County -----					
San Diego -----	1			1	
National City -----	1			1	
San Francisco -----	2			2	
San Joaquin County -----	7				7
Stockton -----	12		2	9	1
Santa Barbara County -----					
Santa Barbara -----	1				1
Santa Clara County -----	2			1	1
Santa Cruz County -----					
Santa Cruz -----	1				1
Stanislaus County -----	1	1			
Sutter County -----					
Yuba City -----	2				2
Total -----	81	4	4	52	21

Typhoid Fever.*Distribution of Cases Reported during December, 1913.*

Counties and cities	Number of new cases reported during month
Alameda County -----	
Alameda -----	2
Berkeley -----	1
Oakland -----	8
Hayward -----	2
San Leandro -----	1
Butte County -----	1
Gridley -----	4
Colusa County -----	6
El Dorado County -----	
Placerville -----	1
Fresno County -----	
Clovis -----	1
Imperial County -----	2
Los Angeles County -----	2
Long Beach -----	2
Los Angeles -----	13
San Fernando -----	2
Watts -----	2
Modoc County -----	
Alturas -----	2
Monterey County -----	2
Riverside County -----	
Beaumont -----	1
Hemet -----	1
San Bernardino County -----	3
Ontario -----	1
Sacramento County -----	
Sacramento -----	34
San Francisco -----	22
Santa Barbara County -----	
Santa Maria -----	2
San Mateo County -----	1
Sierra County -----	
Loyalton -----	1
Tehama County -----	
Corning -----	11
Solano County -----	
Vacaville -----	2
Total -----	133

Poliomyelitis (Infantile Paralysis).

Counties and cities	Number of cases reported during month
Glenn County -----	
Willows -----	1
Humboldt County -----	
Ferndale -----	1
Los Angeles County -----	
Alhambra -----	1
Long Beach -----	1
Los Angeles -----	1
Pomona -----	1
Santa Clara County -----	
Santa Clara -----	2
Total -----	8

Epidemic Cerebrospinal Meningitis.

Counties and cities	Number of new cases reported during month
Alameda County -----	
Oakland -----	1
San Francisco -----	1
Sacramento County -----	
Sacramento -----	1
Tulare County -----	1
Yolo County -----	1
Total -----	5

Number of Cases of Scarlet Fever, Measles, Diphtheria and Other Diseases Reported during December, 1913.

Disease	Total number of new cases
Scarlet fever -----	206
Measles -----	44
Diphtheria -----	188
Dysentery -----	13
Leprosy -----	2
Chickenpox -----	121
Erysipelas -----	15
German measles -----	4
Gonococcus infection -----	8
Malaria -----	4
Glanders -----	1
Mumps -----	40
Pneumonia -----	57
Syphilis -----	2
Tuberculosis -----	339
Tetanus -----	2
Whooping-cough -----	75

LIST OF COUNTY AND CITY HEALTH OFFICERS.

Alameda County—

Dr. C. L. McKown.....Niles
Alameda.....Dr. A. Hieronymus
Albany.....Dr. F. R. Woolsey
Berkeley.....Dr. J. J. Benton
Emeryville.....Dr. A. T. Drennan
Hayward.....Dr. F. W. Browning
Livermore.....Dr. H. G. McGill
Oakland.....Dr. Allen F. Gillihan
Piedmont.....Mr. George T. Burchaell
Pleasanton.....Dr. J. Hal Cope
San Leandro.....Mr. Budd Eber

Alpine County—

Mr. Fred S. Dunlap.....Markleeville

Amador County—

Dr. E. E. Endicott.....Jackson
Jackson.....George Hambric
Sutter Creek.....Dr. J. H. McLaughlin

Butte County—

Dr. L. L. Thompson.....Gridley
Biggs.....Dr. O. C. Hawkins
Chico.....Mr. G. H. Taylor
Gridley.....Dr. L. L. Thompson
Oroville.....Dr. W. F. Gates

Calaveras County—

Dr. Geo. F. Pache.....Angels
Angels.....Dr. E. W. Weirich

Colusa County—

Dr. C. A. Poage.....Colusa
Colusa.....Dr. C. A. Poage

Contra Costa County—

Dr. W. S. George.....Antioch
Antioch.....Dr. W. S. George
Concord.....Dr. F. F. Neff
Hercules.....Dr. M. L. Fernandez
Martinez.....Dr. E. E. Brown
Pinole.....Dr. M. L. Fernandez
Pittsburg.....Dr. F. S. Gregory
Richmond.....Dr. Chas. R. Blake

Del Norte County—

Dr. E. M. Fine.....Crescent City
Crescent City.....Dr. E. M. Fine

El Dorado County—

Dr. L. M. Leisenring.....Placerville
Placerville.....P. J. Hall

Fresno County—

Dr. G. L. Long.....Fresno
Clovis.....M. S. McMurty
Coalinga.....Dr. C. W. Hutchison
Fowler.....Dr. C. O. Mitchel
Fresno.....Dr. L. R. Willson
Kingsburg.....Dr. Thos. H. Smith
Sanger.....Dr. Powers
Selma.....Dr. F. H. Williams

Glenn County—

Dr. J. A. Randolph.....Willows
Orland.....Dr. D. L. Martin
Willows.....Dr. J. T. Gardner

Humboldt County—

Dr. Carl T. Wallace.....Eureka
Arcata.....Dr. G. W. McKinnon
Blue Lake.....Dr. G. N. Wood
Eureka.....Dr. J. A. Wing
Ferndale.....Dr. J. A. Lane
Fortuna.....Dr. Orville Rockwell

Imperial County—

Dr. Virgil McCoombs.....El Centro
Brawley.....Mr. S. A. Armstrong
Calxico.....Dr. W. F. Smith
El Centro.....M. A. Stover
Holtville.....
Imperial.....Dr. C. E. Standlee

Inyo County—

Dr. I. J. Woodin.....Independence
Bishop.....Dr. C. E. Turner

Kern County—

Dr. G. M. Bumgarner.....Bakersfield
Bakersfield.....H. Farris
Maricopa.....Dr. H. N. Taylor
Taft.....Dr. F. C. Galehouse
Tehachapi.....Dr. N. J. Brown, Jr.
McKittrick.....G. M. Chittwood

Kings County—

Dr. C. L. Scott.....Hanford
Lemoore.....Dr. E. H. Byron
Hanford.....Dr. C. L. Scott

Lake County—

Dr. W. E. Upton.....Kelseyville
Kelseyville.....Dr. W. E. Upton
Lakeport.....J. G. West

Lassen County—

Dr. R. W. T. Garner.....Susanville
Susanville.....Dr. E. S. Drucks

Los Angeles County—

Dr. E. O. Sawyer.....Los Angeles
Alhambra.....Dr. F. E. Corey
Arcadia.....Dr. C. D. Gaylord
Avalon.....Percy E. Mackey
Azusa.....Dr. John E. Hill
Burbank.....Dr. E. H. Thompson
Claremont.....Dr. F. W. Thomas
Compton.....J. W. Stone
Covina.....Dr. J. D. Reed
Eagle Rock.....Dr. C. H. Phinney
El Monte.....Dr. S. L. Corpe
Glendale.....Dr. R. E. Chase
Glendora.....Dr. C. H. Wood
Hermosa Beach.....B. F. Brown
Huntington Park.....Dr. W. Thompson
Inglewood.....Dr. H. A. Putnam
Long Beach.....Dr. W. H. Newman
Lordsburg.....Dr. J. E. Hubble
Los Angeles.....Dr. L. M. Powers
Manhattan Beach.....E. M. Jenkins
Monrovia.....Dr. Abram Hostetter
Pasadena.....Dr. Stanley P. Black
Pomona.....Dr. Will H. Holmes
Redondo Beach.....Dr. D. R. Hancock
San Fernando.....Dr. Kenneth W. Allen
San Marino.....
Santa Monica.....Dr. W. H. Parker
Sawtelle.....Dr. A. B. Hromadka
Sierra Madre.....Dr. R. H. Mackerras
South Pasadena.....Dr. C. A. Whiting
Tropico.....Dr. Wm. C. Mabry
Venice.....Dr. W. M. Kendall
Vernon.....Dr. O. R. Stafford
Watts.....Dr. J. L. Lamb
Whittier.....Dr. W. H. Stokes
San Gabriel.....Dr. Ruth Purcell

Madera County—

Dr. Dow H. Ransom.....Madera
Madera.....Dr. Dow H. Ransom

Marin County—

Dr. J. H. Kuser.....Novato
Belvedere.....Dr. Florence Scott
Larkspur.....
Mill Valley.....Capt. M. Staples
Ross.....C. A. Meussdorfer
San Anselmo.....Dr. Chipman
San Rafael.....Dr. W. J. Stone
Sausalito.....Dr. A. H. Mays

Mariposa County—

Dr. T. W. Gallion.....Mariposa

Mendocino County—

Dr. Judson Liftchild.....Ukiah
Fort Bragg.....Dr. L. C. Gregory
Point Arena.....
Potter Valley.....W. T. Eddie
Ukiah.....Dr. J. Liftchild
Willits.....Dr. F. C. Gunn

Merced County—

Dr. J. H. Mudd.....Merced
Los Banos.....Dr. J. L. McClelland
Merced.....Dr. Brett Davis

Modoc County—

Dr. W. E. Coppedge.....Alturas
Alturas.....Dr. John Stile

Mono County—

Dr. R. A. Cushman.....Bridgeport

Monterey County—

Dr. Garth Parker.....Salinas
King City.....Dr. D. Brumwell
Monterey.....R. L. Anderson
Pacific Grove.....Charles E. Tuck
Salinas.....F. A. Abbott